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IUTAM Symposium on 50 Years of Chaos : Applied and Theoretical 2011

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RIGHT:

IUTAM Symposium on 50 Years of Chaos : Applied and Theoretical

November 28 (Mon) - December 2 (Fri), 2011

Kyoto University Clock Tower Centennial Hall, Kyoto, JAPAN



Book of Abstracts

Chair:

Takashi Hikihara (Kyoto University, Japan)

Co-Chair:

Tsutomu Kambe (The University of Tokyo (Former professor), Japan)

Scientific Committee:

Dick H. van Campen (Eindhoven University of Technology, Netherlands)

Philip Holmes (Princeton University, United States)

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Marian Wiercigroch (University of Aberdeen, United Kingdom)

Lai-Sang Young (Courant Institute of Mathematical Sciences, United States)



IUTAM Symposium on 50 Years of Chaos : Applied and Theoretical

Book of Abstracts

November 28 (Mon) - December 2 (Fri), 2011

Kyoto University Clock Tower Centennial Hall, Kyoto, JAPAN

International Union of Theoretical and Applied Mechanics

Chair: Takashi Hikiyara

Secretariat:

Laboratory of Power Conversion and System Control Engineering

Department of Electrical Engineering, Kyoto University

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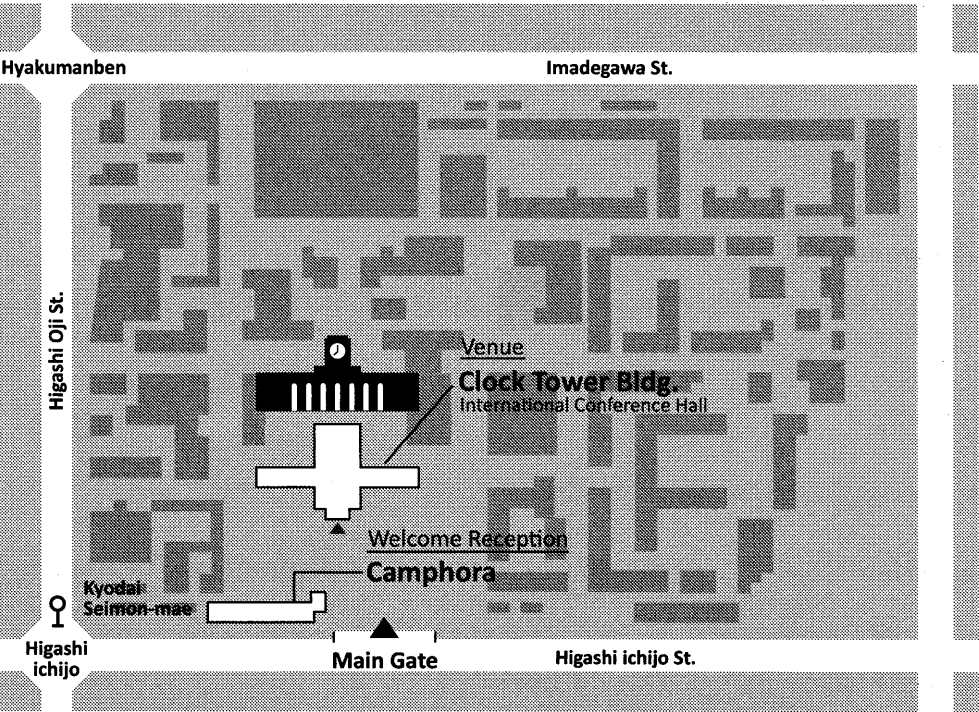
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"Graduate School of Engineering" at Kyoto University

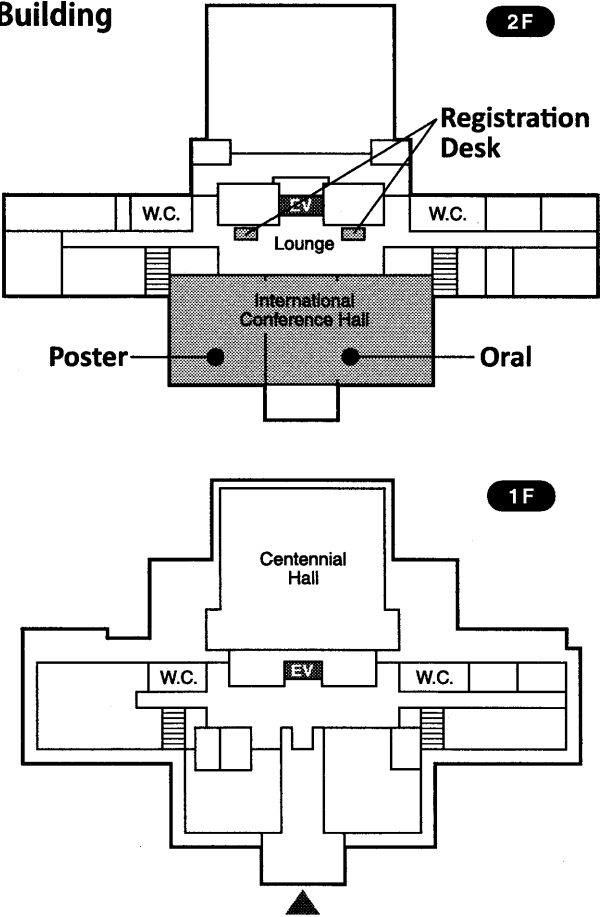
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Clock Tower Building



	November 28 Monday	November 29 Tuesday	November 30 Wednesday	December 1 Thursday	December 2 Friday
9:00		Remark by Vice-President of Kyoto University 09:20 ~ 09:30			
9:30		Session 4 Random and Chaotic Dynamics (Chair: Kohda, Tohru) C7 ~ C9 09:30 ~ 10:45	Session 10 Chaos and Applied Physics (Chair: Moehlis, Jeffery) C23 ~ C25 09:30 ~ 10:45	Session 17 Chaos and Communications (Chair: Namachchivaya, Navaratnam Sri) C34 ~ C37 09:30 ~ 11:10	Session 20 Dynamical Systems and Chaos (Chair: Shishikura, Mitsuhiro) C40 ~ C42 09:30 ~ 10:45
10:00		Break	Break	Break	Break
10:30		Session 5 Chaos in Mechanical Dynamics (Chair: Balachandra, Balakumar) C10 ~ C13 10:55 ~ 12:35	Session 11 Statistical Properties in Dynamics (Chair: Daido, Hiroaki) C26 ~ C28 10:55 ~ 12:10	Session 18 Applied Chaos (Chair: Aihara, Kazuyuki) S4 - Yorke, James A. 11:20 ~ 12:20	Session 21 Spatio-temporal Dynamics in Physics (Chair: Putkaradze, Vakhtang) C43 ~ C46 10:55 ~ 12:35
11:00					
11:30					
12:00					
12:30	On-site registration starts				
13:00		Lunch Break	Lunch Break	Lunch Break	Closing Ceremony 12:35 ~ 12:45
13:30					
14:00	Opening Ceremony 14:00 ~ 14:30	Session 6 Nonlinear Engineering (Chair: Hikiyara, Takashi) S2 - Moon, Francis C. 14:00 ~ 15:00	Session 12 Statistical Physics (Chair: Kambe, Tsutomu) S3 - Ruelle, David 14:00 ~ 15:00	Session 19 Chaos Revolution (Chair: Holmes, Philip) C38 ~ C39 14:00 ~ 14:50	
14:30	Session 1 History of Chaos (Chair: Hikiyara, Takashi) S1 - Holmes, Philip 14:30 ~ 15:30	Break	Break	S5 - Ueda, Yoshisuke 14:50 ~ 15:50	
15:00	Break	Session 7 Energy Applications in Dynamics (Chair: Yabuno, Hiroshi) C14 ~ C16 15:10 ~ 16:25	Session 13 Chaos and Fluid Physics (1) (Chair: Mezić, Igor) C29 ~ C30 15:10 ~ 16:00	Let's take a group photo!	
15:30	Session 2 Identification and Chaotic Dynamics (Chair: Kokubu, Hiroshi) C1 ~ C2 15:40 ~ 16:30	Break	Session 14 Chaos and Fluid Physics (2) (Chair: Eckhardt, Bruno) C31 ~ C33 16:10 ~ 17:25		
16:00	Break	Session 8 Control and Stability in Mechanical Dynamics (Chair: Wiercigroch, Marian) C17 ~ C20 16:35 ~ 18:15	Break		
16:30	Session 3 Biological Dynamics (Chair: Doi, Shinji) C3 ~ C5 16:40 ~ 17:55	Break	Session 15 Short Talks for Poster Presentations (Chair: Hikiyara, Takashi) 17:35 ~ 18:35		
17:00	Break	Session 9 Non-smooth Dynamics (Chair: Kapitaniak, Tomasz) C21 ~ C22 18:25 ~ 19:15			
17:30					
18:00	Break				
18:30	Welcome Reception 18:30 ~		Session 16 Poster Presentations 18:35 ~ 20:30	Symposium Banquet 19:00 ~	Excursion (optional)
19:00					
19:30					
20:00					

Registration

On-Site Registration Desk Opening Hours:

Monday: 12:30-18:00

Tuesday: 9:15-19:00

Wednesday: 9:15-19:00

Thursday: 9:15-15:00

Friday: 9:15-11:00

Social Program

Welcome Reception:

Monday 18:30-, at Kyoto University Camphora

Symposium Banquet:

Thursday 19:00-, at the Garden Oriental Kyoto

Excursion:

Friday 14:00-18:00, to Enryakuji Temple, Kyoto

Technical Program

S = Special Lecture (60-min including discussion)
C = Contributed Talk (20-min talk + 5-min discussion)
Coffee and tea are always served during the symposium.

Monday, November 28, 2011

12:30 On-site registration starts.

Opening Ceremony

14:00-14:30

- 14:00 Remark from IUTAM General Assembly
- 14:10 Remark by Kambe, Tsutomu (Symposium Co-Chair)
- 14:20 Remark by Hikiyara, Takashi (Symposium Chair)

Session 1 - History of Chaos

14:30-15:30

Chair: Hikiyara, Takashi

- 14:30 **S1** - Holmes, Philip
A Short, Truncated, and Partial History of Chaos

Break 15:30

Session 2 - Identification and Chaotic Dynamics

15:40-16:30

Chair: Kokubu, Hiroshi

- 15:40 **C1** - Namachchivaya, Navaratnam Sri
From Random to Data Driven Dynamical Systems: Application to the Lorenz-96 Atmospheric Model
- 16:05 **C2** - Kohda, Tohru
Binary Sequences Using Chaotic Dynamics and Their Applications to Communications

Break 16:30

Session 3 - Biological Dynamics

16:40-17:55

Chair: Doi, Shinji

- 16:40 **C3** - Nakajima, Koji
Dynamic Characteristics of Neuron Models and Active Areas in Potential Functions
- 17:05 **C4** - Tsuchiya, Masa
Finding Biological Roles of Averaging Effect of Large Numbers: The Existence of Genome Vehicles Guiding Cell Fate Decision
- 17:30 **C5** - Hirata, Yoshito
Typical Chaotic Dynamics in Squid Giant Axons
- C6** (canceled)

Break 17:55

Welcome Reception 18:30

Tuesday, November 29, 2011

9:20 Remark by Vice-President of Kyoto University

Session 4 - Random and Chaotic Dynamics

9:30-10:45

Chair: Kohda, Tohru

- 9:30 **C7** - Balachandran, Balakumar
Noise-enhanced Response of Nonlinear Oscillators
- 9:55 **C8** - Sanjuán, Miguel A. F.
Partial Control of Noisy Chaotic Transients Using Escape Times
- 10:20 **C9** - Kapitaniak, Tomasz
How Chaotic (or Random) is the Dice Throw?

Break 10:45

Session 5 - Chaos in Mechanical Dynamics

10:55-12:35

Chair: Balachandra, Balakumar

- 10:55 **C10** - Lacarbonara, Walter
Nonlinear Phenomena in Hysteretic Systems
- 11:20 **C11** - Gottlieb, Oded
Chaos in Thermo-visco-elastic Systems Subject to Laser Irradiation
- 11:45 **C12** - Warminski, Jerzy
Regular and Chaotic Vibrations of Self-Excited Oscillators Driven by Parametric and External Excitations
- 12:10 **C13** - Ario, Ichiro
Hierarchical Structural Analysis for the Multi-folding Structures with Hill-top Bifurcation Points

Lunch Break 12:35

Session 6 - Nonlinear Engineering

14:00-15:00

Chair: Hikiyara, Takashi

- 14:00 **S2** - Moon, Francis C.
Vibro-wind Energy Scavenging: An Example of Nonlinear Engineering

Break 15:00

Session 7 - Energy Applications in Dynamics

15:10-16:25

Chair: Yabuno, Hiroshi

- 15:10 **C14** - Wiercigroch, Marian
Complex Dynamics of Pendulums for Energy Harvesting
- 15:35 **C15** - Moehlis, Jeffery
An Energy Harvester for Broadband Vibrations
- 16:00 **C16** - Miyano, Takaya
Augmented Lorenz Equations as Physical Model for Chaotic Gas Turbine

Break 16:25

Session 8 - Control and Stability in Mechanical Dynamics

16:35-18:15

Chair: Wiercigroch, Marian

16:35 **C17** - Lenci, Stefano

Controlling Nonlinear Dynamics of Systems Liable to Unstable Interactive Buckling

17:00 **C18** - Sato, Masayuki

Analysis of ILM Logic Operations via van der Pol Phase Planes

17:25 **C19** - Yoshimura, Kazuyuki

Stability of Discrete Breathers in Diatomic Fermi-Pasta-Ulam Type Lattices

17:50 **C20** - Yabuno, Hiroshi

Stabilization of Buckled Beam with Coulomb Friction by High-Frequency Excitation

Break 18:15

Session 9 - Non-smooth Dynamics

18:25-19:15

Chair: Kapitaniak, Tomasz

18:25 **C21** - Pavlovskaja, Ekaterina

Chaotic Dynamics of Impact Oscillator with SMA Constraint

18:50 **C22** - Cao, Qingjie

Non-hyperbolic Equilibria of SD Oscillator

Wednesday, November 30, 2011

Session 10 - Chaos and Applied Physics

9:30-10:45

Chair: Moehlis, Jeffery

9:30 **C23** - Uzer, Turgay

Double Ionization with Intense Laser Pulses: Insights from Chaos Theory

9:55 **C24** - Palacios, Antonio

Heteroclinic Cycles in Coupled Systems with Applications to Sensor Devices

10:20 **C25** - Longhini, Patrick

Modeling Coupled Serial Non-Uniform bi-SQUIDs

Break 10:45

Session 11 - Statistical Properties in Dynamics

10:55-12:10

Chair: Daido, Hiroaki

10:55 **C26** - Putkaradze, Vakhtang

Geometric Approach to the Dynamics of Charged Strings

11:20 **C27** - Komatsu, Nobuyoshi

Time-Reversibility, Instability and Thermodynamics in N -body Systems Interacting with Long-Range Potentials

11:45 **C28** - Miyazaki, Syuji

Network Analysis Based on Statistical-Thermodynamical Formalism

Lunch Break 12:10

Session 12 - Statistical Physics

14:00-15:00

Chair: Kambe, Tsutomu

14:00 **S3** - Ruelle, David

From the Theory of Chaos to Nonequilibrium Statistical Mechanics

Break 15:00

Session 13 - Chaos and Fluid Physics (1)

15:10-16:00

Chair: Mezić, Igor

15:10 **C29** - Cvitanović, Predrag

Geometry of State Space in Plane and Pipe Flows

15:35 **C30** - Eckhardt, Bruno

Turbulence Transition in Shear Flows: Chaos in High-dimensional Spaces

Break 16:00

Session 14 - Chaos and Fluid Physics (2)

16:10-17:25

Chair: Eckhardt, Bruno

16:10 **C31** - Funakoshi, Mitsuaki

Chaotic Mixing by a Flow in a Curved Pipe

16:35 **C32** - Adachi, Shizuko

Chaotic Streamlines in Steady Cavity Flows

17:00 **C33** - Mezić, Igor

Spectral Theory of Nonlinear Fluid Flows Based on the Koopman Operator

Break 17:25

Session 15 - Short Talks for Poster Presentations

17:35-18:35

Chair: Hikiyara, Takashi

Session 16 - Poster Presentations

18:35-20:30

Light treatment (foods, desserts, and drinks) is served.

2011 Kyoto Workshop on NOLTA is concurrently held.

Thursday, December 1, 2011

Session 17 - Chaos and Communications

9:30-11:10

Chair: Namachchivaya, Navaratnam Sri

9:30 **C34** - Horio, Yoshihiko

β -expansion's Attractors Observed in A/D converters

9:55 **C35** - Sunada, Satoshi

Theory and Experiments of Fast Non-deterministic Random Bit Generation Using On-chip Chaos Lasers

10:20 **C36** - Umeno, Ken

Exactly Solvable Chaos and Codes for Communications and Analysis

10:45 **C37** - In, Visarath

Nonlinear Channelizer for RF Communication

Break 11:10

Session 18 - Applied Chaos

11:20-12:20

Chair: Aihara, Kazuyuki

11:20 **S4** - Yorke, James A.

The Many Facets of Chaos

Lunch Break 12:20

Session 19 - Chaos Revolution

14:00-15:50

Chair: Holmes, Philip

14:00 **C38** - Kokubu, Hiroshi

Topological-Computational Methods for Analyzing Global Dynamics and Bifurcations

14:25 **C39** - Aihara, Kazuyuki

Chaos and its Applications

14:50 **S5** - Ueda, Yoshisuke

How a Broken Egg Attractor Has Influenced Dynamics of My Life?

Let's take a group photo! 15:50

Symposium Banquet 19:00

Friday, December 2, 2011

Session 20 - Dynamical Systems and Chaos

9:30-10:45

Chair: Shishikura, Mitsuhiro

- 9:30 **C40** - Mischaikow, Konstantin
A Combinatorial Framework for Nonlinear Dynamics
- 9:55 **C41** - Lenci, Marco
The Idea of Infinite-Volume Limit for Some Notions of Mixing in Infinite Ergodic Theory
- 10:20 **C42** - Tucker, Warwick
Validated Numerics and Hilbert's 16th Problem

Break 10:45

Session 21 - Spatio-temporal Dynamics in Physics

10:55-12:35

Chair: Putkaradze, Vakhtang

- 10:55 **C43** - Daido, Hiroaki
Dynamics of Large Ensembles of Coupled Active and Inactive Oscillators
- 11:20 **C44** - Nakao, Hiroya
Phase Description of Periodic Solutions in Reaction-diffusion Systems
- 11:45 **C45** - Ishizaki, Ryuji
Statistical Properties of Fluctuation for Charged Fine Particles in an AC Trap
- 12:10 **C46** - Yoshikawa, Kenichi
Spontaneous Mode Selection of Self-Motile Object under Chemical Nonequilibrium

Closing Ceremony

12:35-12:45

- 12:35 Remark by Hikiyara, Takashi (Symposium Chair)

Excursion (optional) 14:00

Poster Presentations

P1 - Budišić, Marko

Ergodic Coordinates for a Perturbed Hill's Spherical Vortex Flow

P2 - Miranda, Rodrigo A.

Lagrangian Coherent Structures at the Onset of Permanent Spatiotemporal Chaos in the 2D Navier-Stokes Equations

P3 - Inubushi, Masanobu

Covariant Lyapunov Analysis of Chaotic Kolmogorov Flows and Time-correlation Function

P4 - Wells, John C.

Tracking Chaotic Behavior in Environmental Hydraulics. Measurement Models for the Temporal Coefficients of Proper Orthogonal Decomposition of Free-Surface Flows

P5 - Kecik, Krzysztof

Chaos in Mechanical Systems. Selected Problems

P6 - Woo, Ko-Choong

Optimised Progression Rates in Soil by means of Vibro-impact Motion

P7 - Yokoi, Yuichi

Tolerance of Delayed Feedback Control for Maintaining Periodic Rotation

P8 - Hata, Shigefumi

Stochastic Phase Reduction for Noisy Limit-cycle Oscillators

P9 - Morino, Kai

Aging Transitions in Multi-layer Networks of Coupled Oscillators

P10 - Matsui, Katsuhito

Fluctuation-spectra of Few- and Large-degrees-of-freedom Chaotic Systems

P11 - Nakada, Kazuki

Noise-induced Phenomena in Two Strongly Pulse-coupled Spiking Neuron Models

P12 - Luan, Ba Le

Stability Analysis of a Steady State in Three Time-delayed Nonlinear Oscillators Coupled by a Static Connection

P13 - Horikawa, Yo

Exponential Transient Rotating Waves and Their Bifurcations in a Ring of Unidirectionally Coupled Bistable Lorenz Systems

P14 - Kimura, Masayuki

A Study on Intrinsic Localized Modes in a Macro-mechanical Cantilever Array with Tunable On-site Nonlinearity

P15 - Teramoto, Hiroshi

Dynamical Switching of a Reaction Coordinate Triggered by Breakdown of a Normally Hyperbolic Invariant Manifold

P16 - Saiki, Yoshitaka

Relations between Statistical Values along Unstable Periodic Orbits in Differential Equation Systems

P17 - Shiro, Masanori

Chaotic Properties in Musical Sounds

P18 - Takahashi, Ryo

Inner Angles Made of Consecutive Three Points on a Circle for Chaotic and Random Series

P19 - Hisakado, Takashi

Connection from Single-Phase to Three-Phase Circuit Using Free Oscillation Circuits

P20 - Susuki, Yoshihiko

Dynamical Systems Methods for Electric Power Transmission: New Phenomenology and Future Smart Design

Abstracts (Special Lectures)

Abstracts (Contributed Talks)

Abstracts (Poster Presentations)

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 Yorke, James A. S4*
 Yoshikawa, Kenichi C46*
 Yoshimura, Kazuyuki C19* C35

November 28, 2011

Correction of Book of Abstracts

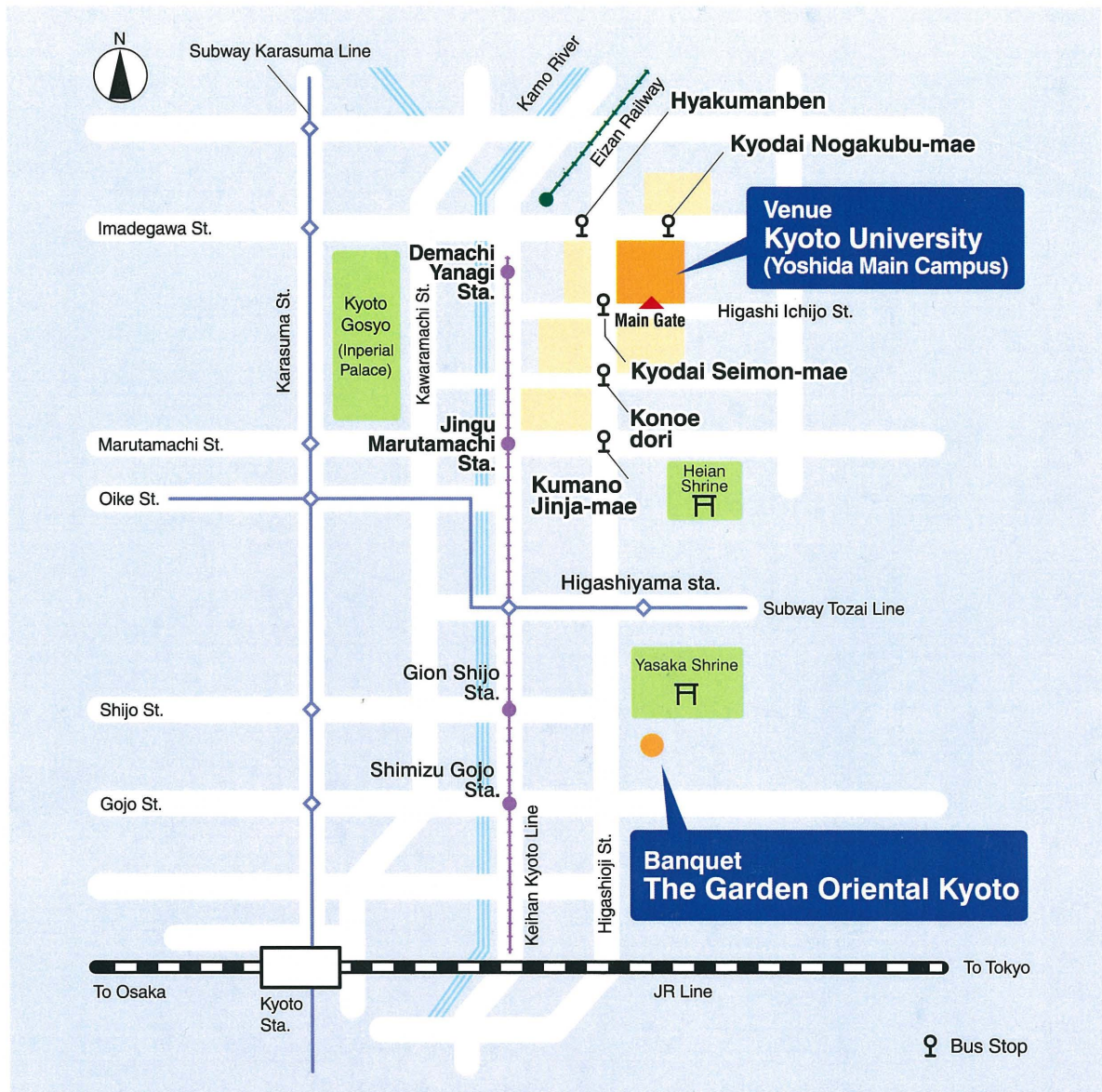
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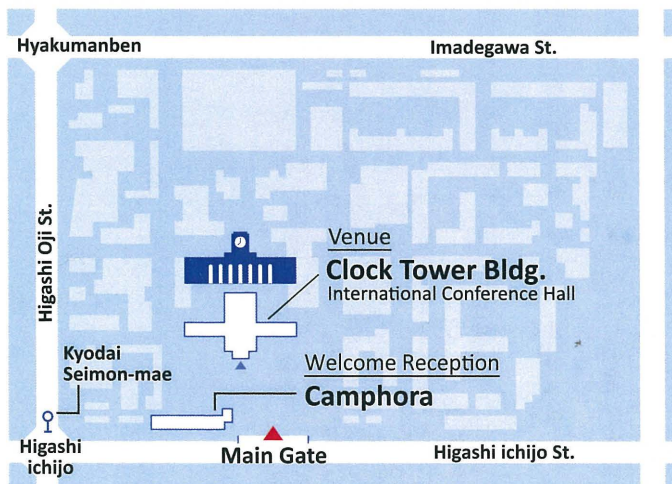
Commemorative organization for the Japan World Exposition '70

Kansai Research Foundation for technology promotion (KRF)

Access Map



Kyoto University (Yoshida Main Campus)



Venue

Kyoto University (Yoshida Main Campus)

Yoshida, Sakyo, Kyoto 606-8501 Japan
Phone: +81-75-753-7531

Banquet

The Garden Oriental Kyoto

366 Yasaka Kamimachi, Higashiiru, Shimogawara,
Yasaka Dori, Higashiyama, Kyoto 605-0827 Japan
Phone: +81-75-541-3331

*Keihan Main Line Gion-Shijo Station 15-minute walk
*Hankyu Kyoto Line Kawaramachi Station 20-minute walk